

From owner-qrp-l@netcom.com Sun Mar 5 15:34:23 1995  
From: negaard@draagen.graceland.edu  
Date: Sun, 5 Mar 1995 10:40:01 -0600  
Message-Id: <199503051640.KAA04236@draagen.graceland.edu>  
Subject: <didn't bother with a subject>

Someone, I think it was K5KVH, kindly sent me a message containing a listing of all the clubs devoted to QRP. (BTW, thanks a bunch Stuart; all the other stuff has made for interesting reading.)

Unfortunately, in an attempt to organize my saved mail, I deleted the club list, and I \_really\_ need it. Please remail?

--

o David Negaard	o negaard@graceland.edu
o Help Desk Technician	o <a href="http://www.graceland.edu/~negaard">http://www.graceland.edu/~negaard</a>
o 700 College Avenue	o linux-phile
o Lamoni, IA 50140	o 73 de KB0PXX

From owner-qrp-l@netcom.com Sun Mar 5 03:09:15 1995  
Date: Sat, 4 Mar 1995 20:24:54 -0700  
Message-Id: <199503050324.UAA09846@mailhost.primenet.com>  
From: aa7qy@PrimeNet.Com (Roger Hightower)  
Subject: Another one lives!

Received my NorCal-40A in the 2 p.m. mail, and just over six hours later fired it up. It lives and breathes! What a nice kit this is...everything was there, great instructions, and a beautiful little thing to look at. Thank gosh for magnifying lamps...guess I'll have to teach my grandsons how to build, so I can rest the eyes, HI.

Hope everyone has theirs by now. 73, de Roger.  
aa7qy@primenet.com rhigh@aztec.asu.edu Ham Radio: AA7QY@KC7Y.AZ.USA.NA

From owner-qrp-l@netcom.com Mon Mar 6 00:34:05 1995  
From: N8ET@delphi.com  
Date: Sun, 05 Mar 1995 21:38:15 -0500 (EST)  
Subject: ARCI Resignations  
Message-Id: <01HNSIGLQ4049EEZ02@delphi.com>

I have seen a number of complaints about the ARCI awards program on the List recently, and one resignation in protest.

I have NOT seen anyone volunteer to help out with the backlog. Keep in mind that ALL the ARCI programs are handled by volunteers. My guess is that they are not independantly wealthy, and they probably have a lot of things to do of higher priority than taking care of ARCI matters. As many have said - this is a hobby - lets keep it all in perspective...

73/72 - Bill - N8ET

From owner-qrp-1@netcom.com Sun Mar 5 04:26:58 1995  
Date: Sat, 4 Mar 95 21:44:50 PST  
From: dh@deneb.csustan.edu (Doug Hendricks)  
Message-Id: <9503050544.AA10302@deneb.csustan.edu>  
Subject: Cascade Progress

Ok, here is a report on the Cascade prototyping project. John, K7RO, is the designer and he started last night (Friday). I heard the first sounds out of the receiver over the phone, and it works!!!. We have found several little bugs, but that is what prototyping is all about. Vern, W6MMA, has his BFO and VFO working. I have my board mounted in the case (the others don't), and I had to figure out the front and rear panel drilling template. The front panel was easy, 9 holes to figure, came out perfect the first time. The back panel was another story. Only 3 holes, but the thing kept coming out wrong (operator error reading 64ths on a ruler (Starrett, great addition to your tool box)). Finally got it all right and started building. Put all of the controls and connectors on the board and got power to the BFO section. I put in all the parts and set the BFO for 9.0015 and 8.9985, and it works like a champ!! John, I am proud of you. If I can make it work, it is well designed.

Warning, this is not a beginner's kit. I would not advise anyone to start his or her building career with this kit. Go with a NorCal 40 or a NE 40-40 first. Get some experience. In fact, I think the very best beginning project is the Oak Hills Research Watt Meter. It is a bargain and is the best meter I have ever used, bar none. (that was for you Chuck.).

It is getting late and I have to get ready for the NorCal meeting tomorrow at the California Burger in Pleasanton. See you there, I will be the guy with the "Cascade". No, it won't be finished, but it will be there for you to look at.

72, Doug, KI6DS

From owner-qrp-1@netcom.com Sun Mar 5 01:00:29 1995  
Date: Sat, 4 Mar 1995 18:39:00 -0800 (PST)  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: Dayton  
Message-Id: <Pine.SUN.3.90.950304183035.16140B-100000@nimbus>

I will be staying at the Best Western about 12 miles south of Dayton. Exit #32, route 75. Think it's a town called Franklin (sp).

We will be driving in from Indy early Sat AM. If I bring my 2m HT, will I be able to use it without any tones?

How do I get reservations for 2 for the QRP banquet on Saturday night? And where is it?

I feel like a kid getting ready for his first date!

73's, Ron

.....KU7Y.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Sun Valley, Nevada....  
.....ARRL.....NorCal #330.....NRA LIFE.....

From owner-qrp-l@netcom.com Sun Mar 5 16:05:15 1995  
Subject: Re: foxhunting  
From: john.lincoln@almac.co.uk (JOHN LINCOLN)  
Message-Id: <8A4E3E8.025601F6C0.uuout@almac.co.uk>  
Date: Sun, 05 Mar 95 16:40:00 +0100

In a message dated 03/01/95 DICK GOBPS wrote :

DG> Hi Gang, Unfortunately here in the UK we have to pay for all phone  
DG> calls. Mine is a long distant call to London to get to the Demon  
DG> gang. I love to see the QRP news on this listing but ..... Could we  
DG> possibly condense what goes on here and keep it to really QRP info

I have been on the list for a little over a week - and whole heartedly agree.  
>From here all calls are long-distance, and I really wanted to see QRP news /  
tech info re QRP .....

NorCal review

Temp compensation of tuning diodes

VXO info etc

This is fine - can this stuff be extracted and distributed without the 1001  
"personal" items?

DG> I know most UK and EU stations soon unsub...

I'll give it another week - but then as Dick says .... another unsubscribe !!

Perhaps a more technical list would be worth setting up

- less traffic and more info
- if there is one - please pass on the address.

John - GM0JOL - Sutherland, North Scotland

-> Alice4Mac 2.4.2 E QWK Ser#2-115  
Origin: john.lincoln@almac.co.uk \* Am Blaran Odhar - Cataibh - Alba

From owner-qrp-l@netcom.com Sun Mar 5 21:21:08 1995  
Date: Sun, 5 Mar 95 16:56:14 CST

From: gcouger@agen.okstate.edu (Gordon Couger)  
Message-Id: <9503052256.AA20866@jsun.agen.okstate.edu>  
Subject: Re: foxhunting

This is a very high traffic mailing list. One busy list I read went to a alt. news group. It is much more managable that way. And the mail list still works the same for those that cannot access news.

Gordon AB5DG

Gordon Couger  
Biosystems & Agricultural Engineering  
Oklahoma State University  
114 Ag Hall, Stillwater, OK 74074  
gcouger@olesun.agen.okstate.edu 405-744-9763 day 624-2855 evenings  
I do not speak for my employer

From owner-qrp-l@netcom.com Sun Mar 5 21:56:31 1995  
From: ab4el@cybernetics.net (Stephen Modena)  
Message-Id: <9503052315.AA24314@cybernetics.net>  
Subject: Re: foxhunting...Scottish Style  
Date: Sun, 5 Mar 1995 18:12:27 -0500 (EST)

There was something special I really liked about John Lincoln's note:

> Subject: Re: foxhunting  
> From: john.lincoln@almac.co.uk (JOHN LINCOLN)  
>  
> In a message dated 03/01/95 DICK GOBPS wrote :  
>  
> DG> Hi Gang, Unfortunately here in the UK we have to pay for all phone  
> DG> calls. Mine is a long distant call to London to get to the Demon  
> DG> gang. I love to see the QRP news on this listing but ..... Could we  
> DG> possibly condense what goes on here and keep it to really QRP info  
>  
> I have been on the list for a little over a week - and whole heartedly agree.

There it is: "...a liittle over a week." :)

> DG>From here all calls are long-distance,and I really wanted to see QRP news /  
> DG>tech info re QRP ....  
> NorCal review  
> Temp compensation of tuning diodes  
> VXO info etc  
> This is fine - can this stuff be extracted and distributed without the 1001  
> "personal" items?

In others words, our Scottish friend thinks this list should "professionalize" itself a bit. Terse, concise, technically impersonal. I gather that the ham exams in the UK require an understanding befitting a radio engineer...just gotta know where people are coming from. :)

>  
> DG> I know most UK and EU stations soon unsub...  
>  
> I'll give it another week - but then as Dick says....another unsubscribe !!

Why wait that long? Really! You've gotten a a pretty good view already..trust me: I run the SunSITE archive and the traffic this past week has been "moderate" both in terms of number of postings and "personal items."

>  
> Perhaps a more technical list would be worth setting up  
> - less traffic and more info  
> - if there is one - please pass on the address.

Good question! Can you name \*any\* QRP elist anywhere else in the World? Come on, Folks...help Mr. Lincoln out(ta here :). Surely there is at least one to suit his tastes/needs....some where.

Does RSGB sponsor/pay for one? How about our other World neighbors?

> John - GM0JOL - Sutherland, North Scotland  
>  
> -> Alice4Mac 2.4.2 E QWK Ser#2-115  
> Origin: john.lincoln@almac.co.uk \* Am Blaran Odhar - Cataibh - Alba

There's no doubt that this elist has a North American center-of-gravity. And Americans can be so rambunctious and undisciplined... and shallow and trivial. But I'm not anal-retentive enough to worry about it much. Gotta get back to my \*verbose\* 160 M QRP anetnna article for this list. :)

--

73/Steve/AB4EL ab4el@Cybernetics.NET in Raleigh, NC 35.81245N, 78.65849W

From owner-qrp-l@netcom.com Sun Mar 5 23:11:22 1995  
Date: Sun, 5 Mar 1995 16:32:54 -0800 (PST)  
From: Monte Stark <ku7y@sage.dri.edu>  
Subject: FS MFJ9040  
Message-Id: <Pine.SUN.3.90.950305163027.19959D@nimbus>

MFJ 9040 for sale.

First \$100 takes it. I need money for Dayton and I have a NorCal 40a built and running now!

Will also trade for a 30m or 20m rig. Whats ya got????

73's, Ron

.....KU7Y.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Sun Valley, Nevada....  
.....ARRL.....NorCal #330.....NRA LIFE.....

From owner-qrp-1@netcom.com Sun Mar 5 23:59:08 1995  
From: ARDAI@MAVEN.dnet.teradyne.com  
Date: Sun, 05 Mar 1995 22:32:14 -0500 (EST)  
Subject: Hallmark DVK article  
Message-Id: <01HNSKBT00TE00GGWM@A1GATE.TERADYNE.COM>

Sorry about that. It will be in the April 1995 issue of QST.  
/mike

From owner-qrp-1@netcom.com Sun Mar 5 16:15:34 1995  
From: NYOUNG@nova.wright.edu  
Date: Sun, 05 Mar 1995 12:58:24 -0400 (EDT)  
Subject: Headphones, cornpones and ear bones  
Message-Id: <01HNRZVXLTBS8WWYFX@nova.wright.edu>

Yeah, I know. I started with something that looks like a rhetorical trope, but I had to start somewhere. And besides, where else would the average qrp loonie get a free lesson in contrastive allophones? Whatever.

Jim Rybak's question is a neat one. Many years ago I bought a set of phones from Heath (remember them?). They were high impedance -- somewhere around 16k -- and they worked pretty neat on crystal sets. I'd love to find a set of high Z phones again just to get my crystal set collection running again. (Crystal sets: the original QRP receiver.)

Also many years ago I bought a set of headphones from the local surplus joint (Mendelsons Surplus, of Dayton Hamvention in a tent with 25k other people who smell like stale beer, wet jackets and moldy leather HT beltpacks). The phones were part of a package deal on 40m QRP surplus tube set. I've been using those phones ever since and I think they're perfect for CW \_and\_ SSB. They have a coiled section of cable (that has not, mind

you, not rotted off) with a little tag that says "Telephonics/  
H-140A/U Headset,/Electrical. Army surplus, naturally.  
Since that time I've bought another pair from Fair Radio  
Sales in Lima, Ohio. (Which reminds me: I want to get  
a recent catalog and buy yet another pair of these dudes.)  
The ones from Fair Radio have a small, straight (as in:  
no coiled section) cord that has already rotted the  
blazes through the outer insulation. (I'm gonna replace  
it with RG174.) These have no nomenclature on the cable.  
They're brown with black plastic ear muffs, solidly  
built and just good ol' fashioned communications quality  
headphones. If I were a betting man (like I don't play  
the lottery, right?), I'd say that these are what Jim  
otter look for. Maybe Fair Radio still has 'em.

They ain't cheap. But they's good. Buy a set and see.

I would definitely stay parsecs clear of "high-fidelity"  
headphones. They're not "tuned" right for CW or SSB.  
They're tuned for Santana at about 120 watts in each  
ear. And since that's definitely not QRP, you don't  
need 'em. You need..... (Tell him what he wins, Don  
Pardo!).... COMMUNICATION HEADPHONES! (and a trip to  
Vegas... No, a trip to Aguadilla, Puerto Rico. Yeah,  
that's the ticket.)

73

Nils

WB8IJN &c

From owner-qrp-l@netcom.com Sun Mar 5 11:14:02 1995  
Date: Sun, 5 Mar 1995 07:07:11 -0500 (EST)  
From: Aa4xx <aa4xx@nando.net>  
Subject: Re: Milliwatting on the QRP net  
Message-Id: <Pine.SUN.3.90.950305064524.2182B-100000@merlin.nando.net>

On Sat, 4 Mar 1995, Mike Czuhajewski wrote:

> Another good day for the Milliwatters! And a few before that....  
> Yes, those of us on the qrp-l mailer do sometimes get on the air,  
> 73 and Queue Our Pea DE WA8MCQ

Mike,

I always look forward to hearing the guys checking into the  
Saturday morning net running their 2 mw "ray guns." It never fails to  
amaze me how such a small amount of power consistently gets the job done,  
and it provides real incentive to think about more efficient antennas.

You guys are consistently 349 to 449 on my end.

Incidentally, I tried checking in with 5 mw, but no one heard me last Saturday. I second the opinion that folks listen for the teeny signals around 7040. I'm sure that even some QRP'ers assume that extremely light signals = poor chance of contact. It may just mean that the guy is running right at the microwatt level.

Milliwatting continues to be a real thrill. I hope others will join in the fun. 72,  
Paul

From owner-qrp-l@netcom.com Sun Mar 5 17:50:05 1995  
Message-Id: <9503052131.AA09881@ismail.is.ups.com>  
From: Randy Smith <tellrws@is.ups.com>  
Subject: Re: Milliwatting on the QRP net  
Date: Sun, 5 Mar 1995 16:31:58 -0500 (EST)

Mike Czuhajewski writes:

>

> Another good day for the Milliwatters! And a few before that....

>

> And for those of you on the net, please be sure to listen for some  
> very weak signals! Remember, "Watts Are For Wimps!"

>

I second that. A 45 minute ragchew with AA8EE on Saturday at 900 milliwatts encouraged me to follow Mike's advice and keep trying. Sunday found me ragchewing for over a half hour each with AA1KP and then K03A with only 90 milliwatts. It's nice to have the OHR wattmeter handy.

72, Randy N2JOC

--

.....  
Randolph Smith tellrws@is.ups.com (201)-828-4706 N2JOC  
The opinions herein are my own, and NOT those of United Parcel Service.

From owner-qrp-l@netcom.com Mon Mar 6 00:46:02 1995  
From: FOXG@WCSUB.CTSTATEU.EDU  
Date: Sun, 5 Mar 1995 23:48:42 -0500 (EST)  
Message-Id: <950305234842.2a013c4a@WCSUB.CTSTATEU.EDU>  
Subject: NORCAL/QRPp

Is the March '95 issue out yet? Please reply direct, not to the list and then I'll post a followup for all.

73, Geoff WA1U

From owner-qrp-l@netcom.com Sun Mar 5 16:47:17 1995  
Date: Sun, 5 Mar 1995 13:42:31 +0001 (EST)  
From: Timothy M Huntington <tmh@world.std.com>



Subject: Operating Skill?

Message-Id: <Pine.3.89.9503051344.A11029-01000000@world.std.com>

qrp-1@netcom.com

QUESTION: What is radio operating skill?

More specifically: What is qrp operating skill?

I pose this question to generate some discussion and confront my own ignorance. An adage bordering on a cliché says "It's not the output power of the rig, it's the operating skill."

I'm a relatively new ham, and very inexperienced in qrp-- I just made my first contact (w/N2USK) using my NE 40-40. I'm always hearing that operating qrp requires "skill" or "greater skill" than being an "appliance operator."

I don't know what this means-- and I'd like to find out. What are the skills? Listening to the band more carefully? Not wasting time answering CQ's that are too weak, or too distant? Is there more?

It would be interesting to hear peoples' views on this.

Tim

N1PAZ

tmh@world.std.com

From owner-qrp-1@netcom.com Mon Mar 6 00:18:27 1995

From: ab4el@cybernetics.net (Stephen Modena)

Message-Id: <9503060129.AA13558@cybernetics.net>

Subject: Reserve WED for SSB QRP Fox Hunt

Date: Sun, 5 Mar 1995 20:26:01 -0500 (EST)

The next SSB QRP Fox had this to say:

> Okay...I will do it Wednesday evening 7-9 pm PST (I'm a /6 you  
> know)...so that would be march 9 3-5UTC? I'll run it in the general  
> and advanced portions of the phone band, alternating by the half  
> hour...I'll give you exact freqs next week...  
>  
> 73 de dave, n9uxu/6

--

73/Steve/AB4EL ab4el@Cybernetics.NET in Raleigh, NC 35.81245N, 78.65849W

From owner-qrp-1@netcom.com Sun Mar 5 23:45:31 1995

From: ab4el@cybernetics.net (Stephen Modena)

Message-Id: <9503060120.AA13123@cybernetics.net>

Subject: SunSITE Gopher is stalled!  
Date: Sun, 5 Mar 1995 20:17:46 -0500 (EST)

This is addressed to those using the QRP-L archives at SunSITE:

Late last Thursday night, something happened at SunSITE and the GOPER server went down. The entire file heirarchy was inaccessible.

By mid-day today (Sunday), it was partially accessible (to me)... and is now fully accessible. Fully accessible if using a SunSITE account to fire up the Gopher.

If you point a gopher client from your machine, you may get a message about "too busy right now." Hopefully this outage is temporary...it may be a load balancing strategy to handle the ever increasing FTP and WWW load that SunSITE carries.

The above means that access to the archive via my WWW homepage at <http://www.ThePorch.com> will fail since it makes a Gopher request to SunSITE for QRP-L and BOATANCHORS archives.

--

73/Steve/AB4EL ab4el@Cybernetics.NET in Raleigh, NC 35.81245N, 78.65849W

From owner-qrp-l@netcom.com Sun Mar 5 19:35:35 1995  
From: PeterWK8S@aol.com  
Date: Sun, 5 Mar 1995 15:48:42 -0500  
Message-Id: <950305154839\_39992523@aol.com>  
Subject: Thanks, got enough for WM-1 purchase!

Please do not respond to me any longer. We have the needed number for the purchase but you can still join if you do the following by the below deadline.

Make Money Order (no checks) make out to "Oak Hills Research" (not Josh) for \$68.50.

Send money order to :

Josh Logan  
85 S. Union Blvd. Suite G-202  
Lakewood, CO 80228-2205  
(303)-988-8302

Money Orders MUST arrive at Josh's BY Tuesday March 14, 1995 to be part of this deal! He will send M.O.s to Oak Hills on March 15th!. Oak Hills will ship direct to you so you must include your Name, Address and evening phone number for Oak Hills to ship. Must not be post office box. UPS does NOT deliver to P.O. boxes!

Thanks to Josh. Maybe you should join CO QRP Club?

73,72

Pete WK8S

From owner-qrp-l@netcom.com Sun Mar 5 23:31:20 1995  
From: ab4el@cybernetics.net (Stephen Modena)  
Message-Id: <9503060100.AA11479@cybernetics.net>  
Subject: The "companion" posting: 160 M Antenna  
Date: Sun, 5 Mar 1995 19:55:05 -0500 (EST)

I recieved this:

>Where is the companion posting re: your 160 M antenna "in the city,"  
>mentioned in your qrp-l posting on 95.3.02? I didn't see it on the  
>rest of the DAILY.QRP listing.  
> ...  
>I'm hoping I might be able to use some of your 160M antenna ideas to  
>improve my 40M indoor attic loop, or whatever I might put up there.

Several people wrote me, because I had not posted my "companion"  
piece about the 160 M antenna I erected for my Fox Run.

This is not a straight mechanical description: it mixes alittle  
philosophy and my "rules-of-thumb" for doing this sort of thing.

Now is the time for the torroid-winders to hit the "N" key. :^)  
This article is about why it is often unnecessary for city-fied  
QRPers to load up a drain gutter.

One might argue that the description of an antenna is more suited to  
be a posting to rec.radio.amateur.antenna. But this really is a "qrp"  
article. Here is why: since the antenna is full-dimensioned, it must  
approach and intrude upon my neighbors. On 20 M and above, 100 watts  
to my vertical wire antennas definitely bother at least one of my  
neighbors. At five watts I have no problem. At 100 watts, my ground-  
mounted 80 M ground plane doesn't seem to bother anyone...maybe  
because of frequency, maybe because it is just far enough away from  
them. For the 160 M case, I must come close to the neighbors and I  
intend to keep my power down.

I live in a single-level duplex: my half of the "lot" is 90' x 60'.  
Of course, My side of the duplex occupies more than one-quarter of it.  
Fortunately, I have a cluster of fine tall pine trees...a factor in  
choosing to rent this particular apartment. ;^] Tall pine trees are  
fine for hanging vertical anetnnas. I have four wire antennas: all are  
"city verticals."

I like to experiment with antennas...and my living situation is such that I must experiment. A few years back, I picked up a 5,000 ft roll of #22 stranded, insulated wire for \$5. Cheap wire in hand, I never hesitate to reel off whatever wire I need to try out antenna ideas. :^) The wire is throw-away...no second thoughts.

Past reading of NEC modelling of a ground mounted ground-plane antenna indicated that for \*short\* radial lengths, five insulated above-ground radials were no less efficient than a large number of radials. Peak radiative efficiency occurred in the vicinity of 1/8 wavelength radials--then fell at greater lengths if the number of radial was five, or twenty. If there are 120 radials, efficiency continues to rise as the length of the radials increases. This does not mean that short radials are efficient relative to a horizontal dipole 1/2-wavelength above ground. It does mean that under the constraint of \*short\* radials, 120, 20 and 5 radial-antennas are comparable. Understanding this breaks past a psychological barrier that might inhibit one from even trying!

Since I already have a 80 M antenna of the intended type, I know that a 66 foot vertical wire, looped over at the top giving an apparent resonance around 3.8 MHz in conjunction with six radials of 32 ft. Therefore, I began by reeling off 132 feet of the #22 for the vertical portion and four pieces of 66 feet for the radials.

I lanyarded the 132' wire up the tree, over the top and down again. I attached one end of the wire to a line which I shot over the limb of a close-by pine and hauled it up. This gave me an approximately 75 foot vertical portion with the remaining ~60 feet bent over and gently, crookedly sloping downward about 40 feet in a South-SouthWestly direction.

Why four radials? Because of physical restraints. The pine with the vertical wire is on the property line (east-west). I stretched one wire west and staked it at the edge of the back access road. I stretched another wire eastward, covering it with pine straw and burying it where it runs near and under the back entrance path of my neighbor in the other half of the duplex, crooked it, ran it around the edge of the house foundation. :^) We both rent...and my landlady likes me. The third radial runs slightly east of south on top of the pine straw, into the crawl space of the apartment and is staked against the far foundation wall. The fourth radial runs more-or-less SouthWest, hops a low curbing at the corner of the house and is staked finally in what passes for my daylily flower bed. I can not run radials northward at all.

This is not a balanced radial net relative to the vertical element... but the fact that that vertical element "leans" over to form a "hat" over the radial field may help things.

I soldered the vertical wire to the center receptical of a female coax fitting. I pigtailed the four radials together and soldered them to the "plate" of the coax fitting. I tethered the coax fitting two feet above ground and one foot from the trunk of the pine tree.

Using my MFJ Antenna Analyzer, I found the SWR was still dropping as I tuned below 1.8 MHz. I removed some wire from vertical wire... until the SWR "dipped" at 1.860 MHz (1:1.2+ was lowest value, which is a combination of radiation resistance plus ground losses). Based on past experience, this is the result I expected.

I soldered coax plugs onto a spare 57 ft piece of RG-59 (75 ohm) coax...and rechecked SWR curve. It was never below 1:2 and the "dip" was out-of-band.

I inserted my old, cheapy MFJ transmatch between the coax and the Antenna Analyser. Setting the Analyser to 1.850 MHz, I tuned for lowest SWR (are you following this?). Because this is 160 M, the tap position is the last one...putting the whole inductor into the circuit. It's not quite the right value...resulting in not getting a match lower than 1:1.6 anywhere in the 160 M band.

Then I insert Transmatch \*between\* antenna feedpoint and coax feed line. The Antenna Analyser was still positioned at end of coax, where the transmitter would be \*without\* the transmatch (Are you following this?). Setting the Analyser to 1.850 MHz, I adjusted the transmatch: the SWR drops to 1:1...giving a 1:1.2 SWR-bandwidth of over 20 KHz.

Detaching the Analyser, I stretched the coax to my car 40 feet away. I hooked it to my cross-needles SWR meter which in turn is hooked to my Kenwood TS-430-S (remember, the transmatch is \*at\* the antenna feed point, not at the transmitter!). Sweeping band at low power, it appeared I've got at least 30 KHz bandwidth of operation before I'd need to readjust the transmatch at the antenna.

That describes my main antenna used for the QRP SSB Fox Hunt on TUE 28 Feb. Though I used this city-lot antenna for the Hunt, I could have used my mobile antenna--a loaded 18-ft mast on my 1979 Ford LTD. I asked several stations to give me a comparison reading between them as I switched back and forth. The mobile mast was one or two S-units weaker...but copyable to all, even the Michigan QRO station that called me.

As indicated in another person's posting, 160 M is worth a QRP effort. Night time skip appears to be excellent. Don't hinder yourself by thinking that you must litterally own a couple of acres to put up an antenna for this band. Nothing could be farther from the truth. :^)

--

73/Steve/AB4EL ab4el@Cybernetics.NET in Raleigh, NC 35.81245N, 78.65849W

From owner-qrp-1@netcom.com Sun Mar 5 00:59:15 1995  
From: PeterWK8S@aol.com  
Date: Sat, 4 Mar 1995 21:40:42 -0500  
Message-Id: <950304214040\_39484977@aol.com>  
Subject: What 30m rig to buy?

A friend of mine is looking to buy a 30 meter cw transciever either in kit form or built and used caringly. I know Small Wonder Labs offer the 40-30 kit for about \$50. But what else is available out there that is worth having? He would like to stay with a superhet. Anyone have a good used 30 meter for sale?  
Any suggestions?

Pete WK8S

From owner-qrp-1@netcom.com Sun Mar 5 01:17:12 1995  
Date: Sat, 4 Mar 1995 18:56:20 -0700 (MST)  
From: "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>  
Subject: What Headphones are good?  
Message-Id: <Pine.3.89.9503041845.B14244-01000000@mesa5.Mesa.Colorado.EDU>

I am currently using a pair of stereo headphones (R.S. Nova 10 with a stereo to mono plug adapter) for copying cw. These are comfortable and sensitive headphones but the problem is that, due to their "hi-fi" quality, static and other types of QRN are reproduced too well. (It almost seems that the response at the audio frequencies which comprise static is better than at about 500-750 Hertz!)

Does anyone know of a brand of currently available sensitive headphones with a frequency response that does not reproduce static quite so well? An impedance of 8 ohms would be best but of course I could always use an impedance matching transformer if I have to. What are considered to be the "best" headphones for cw communications purposes?

Thanks for your help.

Jim W0KSD

From owner-qrp-1@netcom.com Sun Mar 5 08:48:15 1995  
From: Byron8LCZ@aol.com  
Date: Sun, 5 Mar 1995 07:51:47 -0500  
Message-Id: <950305075146\_39715972@aol.com>  
Subject: Re: What Headphones are good?

In the June 94 issue of 72 mag from New Eng QRP, Chuck Vaugh AA0HW wrote an article about using a Radio Shack 3 way audio cross over board to make a cw filter. it costs 15 bucks and has 4 chokes wound on two iron cores (rated for 100 watts of audio) and 4 non-polarized capacitors ( 2.7, 4, 12 & 24 uf ) on it. with a little modification this should turn into a great passive filter for just such an application. Unfortunately he didnt go into details in the article, but if you like to experiment, this could be a good way to get started. Individual heavy toroids can cost 10 bucks each. so this is a bargain. the instruction pamphlet that comes with it tells of six different combinations including: 0-800, 0-1600, 1600-7000, 800-5000, 7000 and higher, 5000 and higher hertz passbands, this could work ok as is, or a single passband can be shifted in freq with a cap. If anyone on the list is into passive filters, how about some suggestions ? It looks like the toroids set a bandwidth and the caps set the starting freq range.

This is one of many, unfinished projects i started and it somehow slipped between the cracks.

I've found that narrow filters ( 250 hz ) can hide too many signals (except during a contest), i tend to stay between 500 hz and 1000 hz, for I.F., SCAF and Digital filters.

Communications headphones are geared towards SSB operations, they too, need some filtering in the 400 to 1000 hz range. i would like to come up with a 500 to 900 setting, a 300 to 1100 hz setting and a 0 to 2400 hz setting for SSB.

72, Byron WA8LCZ

From owner-qrp-l@netcom.com Sun Mar 5 09:11:40 1995  
From: Byron8LCZ@aol.com  
Date: Sun, 5 Mar 1995 08:09:07 -0500  
Message-Id: <950305080906\_39719243@aol.com>  
Subject: Re: What Headphones are good?

I guess i'd better stop posting messages until after that first cup of coffee. in my last message, i should have said chokes everywhere not toroids. i have toroids on the brain with all this construction talk going on. sorry

One of my favorite black boxes, is a SCAF filter from MSC, it has selectable filter widths from 100 hz to 1100 hz on cw and from 100 hz to 2800 hz on SSB, with two knobs you can set the passband and move the passband with respects to the carrier freq. its fast to learn and use, and it works great. Too bad, it needs 12 volts AC or it would be great for portable use. (must be some plus and minus voltages required inside for op amps) The 10 segment LED bargraph on the front shows you just how its set and makes the learning curve short.

It costs 175.00 dollars but since its an external audio filter, you can use

it on any and all rigs forever. where as the 500 hz I.F. filter in my Kenwood costs 100 dollars and only works in this model of kenwood. You really need both, I.F. and audio filters but the costs can add up quickly. I saw this filter demo'ed at Dayton 2 or 3 years ago and couldnt believe how well it worked. the guy only took cash and hasnt shown up at Dayton since. Must be a home grown business.

72, Byron WA8LCZ